

DERWENT-ACC-NO: 1985-063408

DERWENT-WEEK: 198511

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TITLE: PCB automatic testing probe - has rod which  
slides into  
conducting retainer and insulating cylinder on  
rod  
switching out probe as PCB moves down

INVENTOR: CLAYMAN, D B

PRIORITY-DATA: 1983US-0525686 (August 23, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
DE 3430834 A	March 7, 1985	N/A
N/A		029
GB 2145582 A	March 27, 1985	N/A
N/A		000

INT-CL (IPC): G01R001/06, G01R031/28 , H01R011/18 ,  
H05K013/08

ABSTRACTED-PUB-NO: DE 3430834A

## BASIC-ABSTRACT:

Each **cylindrical test probe** (16) consists of a conducting rod (18) with a broadened insulated (25) base and at least one insulating cylinder (24) let into its surface at a variable position on the rod. The rod locates within a retainer (28) and can slide within it; a **spring** (36) biases the probe to the extended position. As the probe moves from its fully extended position to its fully closed position, the insulating collar acts as a switch in the current path from probe **tip** to retainer at their sliding junction giving an On-Off-On action.

By arranging these probes in contact with test points on the underside of the PCB switching of the test circuit, can be achieved by driving the PCB up and down between set positions.

USE/ADVANTAGE - This test probe arrangement for PCBs is more flexible and faster than conventional systems.

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Basic Abstract Text - ABTX (1):

Each **cylindrical test probe** (16) consists of a conducting rod (18) with a broadened insulated (25) base and at least one insulating cylinder (24) let into its surface at a variable position on the rod. The rod locates within a retainer (28) and can slide within it; a **spring** (36) biases the probe to the extended position. As the probe moves from its fully extended position to its fully closed position, the insulating collar acts as a switch in the current path from probe **tip** to retainer at their sliding junction giving an On-Off-On action.